

<120> A MEMORY ENHANCING PROTEIN

<130> The Research Foundation Albany

<140> 09/839,073

<141> 2001-04-20

<160> 4

<170> PatentIn Ver. 2.1

<210> 1

<211> 2058

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (444)..(1670)

<220>

<221> unsure

<222> (522)

<223> r at position 522 is g or a

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gcacagagca taaagaatct gcgctgagga ggcaggagaa gaaagccgaa tctatctacc 240

gccggggagc cagaagatgg aggaagctgt accgtgccaa cggccacctc ttccaagcca 300

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ggcaaggcta caggtgcatc aactgcaaac tgctggtcca taagcgctgc cacggcctcg 420

tecegetgae etgeaggaag cat atg gat tet gte atg eet tee eaa gag eet 473 Met Asp Ser Val Met Pro Ser Gln Glu Pro

cca gta gac gac aag aac gag gac gcc gac ctt cct tcc gag gag aca 521 Pro Val Asp Asp Lys Asn Glu Asp Ala Asp Leu Pro Ser Glu Glu Thr

569 rat gga att gct tac att tcc tca tcc cgg aag cat gac agc att aaa Xaa Gly Ile Ala Tyr Ile Ser Ser Ser Arg Lys His Asp Ser Ile Lys 30 35

gac gac tcg gag gac ctt aag cca gtt atc gat ggg atg gat gga atc 617 Asp Asp Ser Glu Asp Leu Lys Pro Val Ile Asp Gly Met Asp Gly Ile

aaa atc tct cag ggg ctt ggg ctg cag gac ttt gac cta atc aga gtc

Lys	Ile 60	Ser	Gln	Gly	Leu	Gly 65	Leu	Gln	Asp	Phe	Asp 70	Leu	Ile	Arg	Val	
	ggg															713
	gac Asp															761
	gac Asp															809
	gca Ala															857
	aca Thr 140															905
	atg Met															953
	ttc Phe															1001
	ggg Gly															1049
	gac Asp															1097
ctg Leu	ggc Gly 220	cct Pro	ggt Gly	gac Asp	aca Thr	acg Thr 225	agc Ser	act Thr	ttc Phe	tgc Cys	gga Gly 230	acc Thr	ccg Pro	aat Asn	tac Tyr	1145
	gcc Ala															1193
	tgg Trp															1241
	ttc Phe															1289
ctt Leu	ttc Phe	caa Gln 285	gtg Val	atc Ile	ctg Leu	gag Glu	aag Lys 290	ccc Pro	atc Ile	cgg Arg	atc Ile	ccc Pro 295	cgg Arg	ttc Phe	ctg Leu	1337
	gtc Val															1385

300	305		310	
aaa gag agg ctc ggc Lys Glu Arg Leu Gly 315				
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ttt gag tat atc aac Phe Glu Tyr Ile Asn 395				1670
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<210> 2 <211> 409 <212> PRT

<213> Homo sapiens

<220>

<221> unsure

<222> (27)

<223> Xaa at position 27 is Asp or Asn

<400> 2

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Ser Ser Ser Arg Lys His Asp Ser Ile Lys Asp Asp Ser Glu Asp Leu 35 40 45

Lys Pro Val Ile Asp Gly Met Asp Gly Ile Lys Ile Ser Gln Gly Leu 55 Gly Leu Gln Asp Phe Asp Leu Ile Arg Val Ile Gly Arg Gly Ser Tyr Ala Lys Val Leu Leu Val Arg Leu Lys Lys Asn Asp Gln Ile Tyr Ala Met Lys Val Val Lys Lys Glu Leu Val His Asp Asp Glu Asp Ile Asp Trp Val Gln Thr Glu Lys His Val Phe Glu Gln Ala Ser Ser Asn Pro 120 Phe Leu Val Gly Leu His Ser Cys Phe Gln Thr Thr Ser Arg Leu Phe Leu Val Ile Glu Tyr Val Asn Gly Gly Asp Leu Met Phe His Met Gln Arg Gln Arg Lys Leu Pro Glu Glu His Ala Arg Phe Tyr Ala Ala Glu 165 Ile Cys Ile Ala Leu Asn Phe Leu His Glu Arg Gly Ile Ile Tyr Arg 185 Asp Leu Lys Leu Asp Asn Val Leu Leu Asp Ala Asp Gly His Ile Lys Leu Thr Asp Tyr Gly Met Cys Lys Glu Gly Leu Gly Pro Gly Asp Thr Thr Ser Thr Phe Cys Gly Thr Pro Asn Tyr Ile Ala Pro Glu Ile Leu Arg Gly Glu Glu Tyr Gly Phe Ser Val Asp Trp Trp Ala Leu Gly Val Leu Met Phe Glu Met Met Ala Gly Arg Ser Pro Phe Asp Ile Ile Thr Asp Asn Pro Asp Met Asn Thr Glu Asp Tyr Leu Phe Gln Val Ile Leu 280 285 Glu Lys Pro Ile Arg Ile Pro Arg Phe Leu Ser Val Lys Ala Ser His 295 Val Leu Lys Gly Phe Leu Asn Lys Asp Pro Lys Glu Arg Leu Gly Cys Arg Pro Gln Thr Gly Phe Ser Asp Ile Lys Ser His Ala Phe Phe Arg Ser Ile Asp Trp Asp Leu Leu Glu Lys Lys Gln Ala Leu Pro Pro Phe Gln Pro Gln Ile Thr Asp Asp Tyr Gly Leu Asp Asn Phe Asp Thr Gln Phe Thr Ser Glu Pro Val Gln Leu Thr Pro Asp Asp Glu Asp Ala Ile 370 375 380

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Leu Leu Ser Thr Glu Glu Ser Val 405

<210> 3 <211> 2058 <212> DNA

<213> Homo sapiens

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<211> 13
<212> PRT
<213> Unknown Organism
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<223> Description of Unknown Organism: mzip peptide
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